



Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT						
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: January 12, 2006			ATTY DOCKET NO. 2000_1326		SERIAL NO. 09/669,916			
			APPLICANT Mitsuaki OSHIMA et al.		FILING DATE September 25, 2000			GROUP 2634
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DH	AA	4,597,090	6-24-86	Forney, Jr.	—	—	—	
	AB	4,077,021	2-28-78	Csajka et al.	—	—	—	
	AC	2005/0004750	4-21-05	Wang et al.	—	—	—	
	AD	2005/0058633	3-17-05	Epstein et al.	—	—	—	
	AE	2005/0922822	—	—	—	—	—	
	AF	4,918,437	4-17-90	Jasinski et al.	—	—	—	
	AG	5,023,889	6-11-91	Divsalar et al.	—	—	—	
	AH	5,063,452	11-5-91	Higurashi	—	—	—	
	AI	5,124,852	6-23-92	Suwa et al.	—	—	—	
	AJ	5,136,380	8-4-92	Cho	—	—	—	
	AK	5,146,335	9-8-92	Kim et al.	—	—	—	
	AL	5,148,422	9-15-92	Sako et al.	—	—	—	
DH	AM	5,218,436	6-8-93	Sugiyama et al.	—	—	—	
FOREIGN PATENT DOCUMENTS								
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DH	AN	2627574	7-21-04	CN	—	—	—	
DH	AO	1529838	5-11-05	EP	—	—	abstract	
DH	AP	1499725	5-26-04	CN	—	—	only abstract	
DH	AQ	2004-159207	6-3-04	JP	—	—	corresponds to AP	
DH	AR	1528854	5-11-05	EP	—	—	only abstract	
DH	AS	52118	12-16-02	UA	—	—	only abstract	
DH	AT	1569334	1-26-05	CN	—	—	— x	
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)								
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EXAMINER 				DATE CONSIDERED 01/30/06				

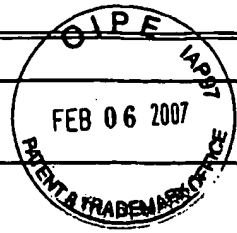
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop, this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: February 6, 2007

ATTY DOCKET NO.
2000_1326SERIAL NO.
09/669,916APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
September 25, 2000GROUP
2634

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
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	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
/DH/	AJ	3-13145	1-22-91	Japan			abstract
/DH/	AK	4-322592	11-12-92	Japan			abstract
/DH/	AL	63-253738	10-20-88	Japan			abstract
/DH/	AM	62-502932	11-19-87	Japan			abstract
/DH/	AN	58-107740	6-27-83	Japan			abstract

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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	AP	
	AQ	

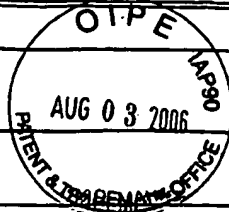
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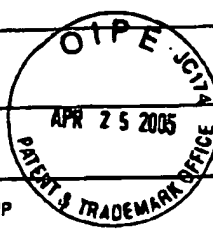
DATE CONSIDERED

03/06/2007


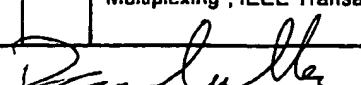
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Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: August 3, 2006			ATTY DOCKET NO. 2000_1326		SERIAL NO. 09/669,916		
			APPLICANT Mitsuaki OSHIMA et al.				
			FILING DATE September 25, 2000		GROUP 2634		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/DH/	AA	4,267,592	5-12-81	Craiglow			
/DH/	AB	4,601,045	7-15-86	Lubarsky			
/DH/	AC	4,912,706	3-27-90	Eisenberg et al.			
/DH/	AD	4,914,655	4-3-90	Johannes et al.			
/DH/	AE	5,018,198	5-21-91	Takahashi			
/DH/	AF	4,003,002	1-11-77	Snijders et al.			
/DH/	AG	4,053,713	10-11-77	Nitadori			
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO						
	AP						
	AQ						
EXAMINER				DATE CONSIDERED			
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Sheet 1 of 2		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: April 25, 2005				ATTY DOCKET NO. 2000_1326		SERIAL NO. 09/669,916	
				APPLICANT Mitsuaki OSHIMA et al.			
				FILING DATE September 25, 2000			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	3,959,726	5-25-76	Hinoshita et al.	—	—	—
	AB	4,535,352	8-85	Haskell	—	—	—
	AC	4,564,858	1-14-86	Resch	—	—	—
	AD	4,769,819	9-6-88	Matsutani et al.	—	—	—
	AE	4,817,192	3-28-89	Phillips et al.	—	—	—
	AF	5,029,003	7-91	Jonnalagadda	—	—	—
	AG	5,134,464	7-28-92	Basile et al.	—	—	—
	AH	5,400,084	3-21-95	Scarpa	—	—	—
DH	AI	4,800,426	1-24-89	Glenn	—	—	—
FOREIGN PATENT DOCUMENTS							
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DH	AJ	3-48587	3-1-91	Japan	—	—	abstract
	AK						
	AL						
	AM						
	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
DH	AO	Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991					
DH	AP	Ryutaro OHMOTO et al., "π/4-shift QPSK Subcarrier Transmission", 1991					
	AQ						
EXAMINER <u>D. Miller</u>				DATE CONSIDERED <u>06/30/05</u>			

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Sheet 2 of 2		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: April 25, 2005			ATTY DOCKET NO. 2000_1326		SERIAL NO. 09/669,916		
			APPLICANT Mitsuaki OSHIMA et al.				
			FILING DATE September 25, 2000		GROUP 2634		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	5,561,468	10-1-96	Bryan et al.	—	—	—
	AB	5,181,112	1-19-93	Citta et al.	—	—	—
	AC	5,377,051	12-27-94	Lane et al.	—	—	—
	AD	5,576,902	11-19-96	Lane et al.	—	—	—
	AE	5,218,622	6-8-93	Fazel et al.	—	—	—
	AF	5,598,220	1-97	Citta et al.	—	—	—
DH	AG	5,007,088	4-9-91	Ooi et al.	—	—	—
	AH						
	AI						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ						
	AK						
	AL						
	AM						
	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
DH	AO	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14					
DH	AP	B. Hirosaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989					
DH	AQ	L. J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. Com-33, No. 7, July 1985, pages 665-675 and Annex					
EXAMINER				DATE CONSIDERED			
				06/30/05			

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FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
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Date Submitted to PTO: September 25, 2000

ATTY DOCKET NO.
2000_1326SERIAL NO.
NEW

09/16/9914

APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
September 25, 2000

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	4,227,152	10-7-80	Godard et al.	I	I	
	AB	4,525,846	6-25-85	Bremer et al.	I	I	
	AC	4,751,478	6-14-88	Yoshida	I	I	
	AD	4,891,806	1-2-90	Farias et al.	I	I	
	AE	4,903,125	2-20-90	Parker	I	I	
	AF	4,937,844	6-26-90	Kao	I	I	
	AG	5,164,963	11-17-92	Lawrence et al.	I	I	
	AH	5,555,275	9-1996	Oshima	I	I	
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	0311188	4-12-89	EP	I	I	X
	AK	0329158	8-23-89	EP	I	I	X
	AL	64-5135	1-10-89	JP	I	I	X
	AM	63-28145	2-5-88	JP	I	I	X
	AN	62-133842	6-17-87	JP	I	I	X

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Tricia Hill et al., "A Performance Study of NLA 64-State QAM", IEEE Transactions on Communications, vol. COM-31, June 1983, no. 6, pages 821-826.
	AP	Hideki Ishio et al., "A Proposal of a Carrier Digital Transmission System Using Multi-Level APSK", pages 1-20. v date
AS	AQ	Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.

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DATE CONSIDERED

08.20.02

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FORM PTO 1449 (modified)

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09/14/99/16

APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
September 25, 2000

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SC	AA	5,311,550	5-10-94	Fouche et al.			
	AB	4,630,287	12-16-86	Armstrong			
	AC	4,271,527	6-2-81	Armstrong			
	AD	5,050,188	9-17-91	Dirr			
	AE	5,398,073	3-14-95	Wei			
	AF	5,452,015	9-19-95	Hulyalkar			
	AG	5,565,932	10-15-96	Gitta et al.			
	AH	5,481,412	1-2-96	Bannai et al.			
	AI	3,909,721	9-30-75	Bussgang et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	0365431	4-25-90	EP			X
	AK	0485105	5-13-92	EP			X
	AL	92/14343	8-20-92	WO			X
	AM	89/08366	9-8-89	WO			X
	AN	0031193	7-1-81	EP			X

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Shinji Matsumoto et al., "200 Mb/s 16 QAM Digital Radio-Relay System Operating in 4 and 5 GHz Bands", Japan Telecommunications Review, January 1982, vol. 24, no. 1, pages 65-73.
	AP	M. Pecot et al., "Compatible Coding of Television Images, Part 2. Compatible System", Signal Processing Image Communication, October 2, 1990, no. 3, pages 259-268.
SC	AQ	Mitsuaki Oshima, "Constellation-Code Division Multiplex for Digital HDTV", IEEE, 1992, pages 1086-1092.

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DATE CONSIDERED

08.26.02

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FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
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Date Submitted to PTO: September 25, 2000

ATTY DOCKET NO.
2000_1326SERIAL NO.
NEW

159/109916

APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
September 25, 2000

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	5,105,442	4-14-92	Wei	I	I	
	AB	4,048,572	9-13-77	Dogliotti et al.	I	I	
	AC	5,282,019	1-25-94	Basile et al.	I	I	
	AD	5,311,547	5-10-94	Wei	I	I	
	AE	5,267,021	11-30-93	Ramchandran et al.	I	I	
	AF	5,038,219	8-6-91	Yamashita et al.	I	I	
	AG	5,087,975	2-11-92	Citta et al.	I	I	
	AH	5,086,340	2-4-92	Citta et al.	I	I	
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	53-137657	12-1-78	JP	I	I	X
	AK	0282298	9-14-88	Europe	I	I	X
	AL	0392538	10-17-90	Europe	I	I	X
	AM	0490552	6-17-92	Europe	I	I	X
	AN	0506400A2	9-30-92	Europe	I	I	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Khaled Fazel et al., Combined multilevel coding and multiresolution modulation, February 8, 1993, Pages 1081-1085
	AP	P. Hoeher et al., Performance of an RCPC-Coded OFDM-based Digital Audio Broadcasting (DAB) System, IEEE Global Telecommunications Conference "Globecom '91", December 2-5, 1991, Vol. 1 of 3, Pages 2.1.1 - 2.1.7
AS	AQ	K. M. Uz et al., Combined multiresolution source coding and modulation for digital broadcast of HDTV*, 1992, Pages 283-292

EXAMINER

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08.20.02

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FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
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09/10/99/16

APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	5,142,353	8-25-92	Kageyama et al.	I	I	
	AB	5,197,061	3-23-93	Halbert-Lassalle et al.	I	I	
	AC	5,291,289	3-1-94	Hulyalkar et al.	I	I	
AS	AD	5,166,924	11-24-92	Moose	I	I	
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	AF						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AS	AJ	0448492A1	9-25-91	Europe	I	I	
	AK	0485108A2	5-13-92	Europe	I	I	
	AL	0525641A2	2-3-93	Europe	I	I	
	AM	0540231A2	5-5-93	Europe	I	I	
	AN	0531046A2	3-10-93	Europe	I	I	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	K. M. Uz et al., Multiresolution Source and Channel Coding for Digital Broadcast of HDTV, 1992, Pages 61-69.
	AP	Nambi Seshadri et al., Multi-Level Block Coded Modulations with Unequal Error Protection for the Rayleigh Fading Channel, Vol. 4, No. 3, May-June 1993, Pages 325-334.
AS	AQ	William F. Schreiber, Spread-Spectrum Television Broadcasting, SMPTE Journal, August 1992, Pages 538-549.

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08.20.02

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FORM PTO 1449 (modified)

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Date Submitted to PTO: September 25, 2000

ATTY DOCKET NO.
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10/09/00 9914

APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
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U.S. PATENT DOCUMENTS

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	AA						
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	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AD	AJ	85/04541	10-10-85	WO	—	—	
	AK						
	AL						
	AM						
	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AD	AO	Martin Vetterli et al., Multiresolution Coding Techniques for Digital Television: A Review, Multidimensional Systems and Signal Processing, Volume 3, May 1992, Pages 161-187.
	AP	Ezio Biglieri et al., Introduction to Trellis-Coded Modulation with Applications, April 6, 1992, Pages 173-207.
AD	AQ	English Language Abstract of European Patent No. 93 30 7575 r dcl

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DATE CONSIDERED

08.2002

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Sheet 8 of 8							
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: September 25, 2000	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;">ATTY DOCKET NO. 2000_1326</td> <td style="width: 70%; padding: 2px;">SERIAL NO. NEW <i>09/16/9914</i></td> </tr> <tr> <td colspan="2" style="padding: 2px;">APPLICANT Mitsuaki OSHIMA et al.</td> </tr> <tr> <td style="width: 60%; padding: 2px;">FILING DATE September 25, 2000</td> <td style="width: 40%; padding: 2px;">GROUP</td> </tr> </table>	ATTY DOCKET NO. 2000_1326	SERIAL NO. NEW <i>09/16/9914</i>	APPLICANT Mitsuaki OSHIMA et al.		FILING DATE September 25, 2000	GROUP
ATTY DOCKET NO. 2000_1326	SERIAL NO. NEW <i>09/16/9914</i>						
APPLICANT Mitsuaki OSHIMA et al.							
FILING DATE September 25, 2000	GROUP						
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>AS</i>	AA	4,636,876	1-13-87	Schwartz			
	AB	4,855,692	8-8-89	Kennard et al.			
	AC	4,873,701	10-10-89	Tretter			
	AD	4,958,360	9-18-90	Sari			
	AE	5,115,453	5-19-92	Calderbank et al.			
<i>AS</i>	AF	5,168,509	12-1-92	Nakamura et al.			
	AG						
	AH						
	AI						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>AS</i>	AJ	0122805	10-24-84	EP			X
<i>AS</i>	AK	63-180280	7-25-88	JP			abstract
	AL						
	AM						
	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>AS</i>	AO	Kazuhiko Nitadori, Synthesis of Multichannel Orthogonal VSB Signals by Quadrature Method, 1976 International Conference on Communications, June 14-16, 1976, Volume 1, Pages 3-25 - 3-29.					
	AP	Thomas M. Cover, Broadcast Channels, IEEE Transactions on Information Theory, January 1972, Pages 2-14					
<i>AS</i>	AQ	"Optimum Weighted PCM for Speech Signals", Sundberg, IEEE Transactions on Communications, Volume COM-26, No. 6, June 1978, Pages 872-881.					
EXAMINER	<i>Amande</i>			DATE CONSIDERED	<i>08.20.02</i>		

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